

### **PATENT**

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s)

Ahmed, et al.

Examiner:

Unassigned

Serial No.:

10/573,056

Group Art Unit:

Unassigned

Confirmation No:

Unassigned

Docket:

1038-17 PCT/US

Filed:

March 22, 2006

Dated:

May 22, 2006

For:

METHOD AND APPARATUS FOR THE SEPARATION OF FLUORESCENCE

AND ELASTIC SCATTERING PRODUCED BY BROADBAND

ILLUMINATION USING

POLARIZATION DISCRIMINATION

**TECHNIQUES** 

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 I hereby certify this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R. §1.56, Applicants submit herewith the following Information Disclosure Statement in accordance with the provisions of 37 C.F.R. §1.97 and §1.98.

# **NON-PATENT PUBLICATIONS**

- 1. Fuchs, "Separating the Fluorescence and Reflectance Components of Coral Spectra," Applied Optics, Vol. 40, No. 21, pp. 3614-3621 (July 20, 2001).
- 2. Cunningham, et al., "Brewster-angle Measurements of Sea-surface Reflectance Using a High Resolution Spectroradiometer," J. Opt. A: Pure Appl. Opt. 4, S29-S33 (2002).

3. S.P. Schilders, et al., "Effect of Scatterer Size on Microscopic Imaging Through Turbid Media Based on Differential Polarisation-Gating," Optics Communications 157, pp. 238-248 (1998).

137, pp. 236-246 (1776).

4.

J.M. Schmitt, et al., "Use of Polarized Light to Discriminate Short-Path Photons in a Multiply Scattering Medium," Applied Optics, Vol. 31, No. 30, pp. 6535-6546

(October 20, 1992).

5. S.G. Demos, et al., "Temporal Gating in Highly Scattering Media by the Degree of Optical Polarization," Optics Letters, Vol. 21, No. 2, pp. 161-163 (January 15, 1996).

6. Stephen P. Morgan, et al., "Effects of Polarization State and Scatterer Concentration on Optical Imaging Through Scattering Media," Applied Optics, Vol. 36, No. 7, pp.

1560-1565 (March 1, 1997).

7. J.F.R. Gower, et al., "Interpretation of the 685 nm Peak in Water-Leaving Radiance Spectra in Terms of Fluorescence, Absorption and Scattering, and its Observation by

MERIS," Int. J. Remote Sensing, Vol. 20, No. 9, pp. 1771-1786 (1999).

8. A.A. Gitelson, et al., "Remote Estimation of Chlorophyll Concentration in Productive Waters: Principals, Algorithm Development and Validation," Proc. of NWOMC, 149

(2000).

The above-referenced documents are listed on Form PTO-1449. We have enclosed

the cited documents to facilitate reference to them.

Applicants are not aware of any other references to be identified at this time. If the

Examiner has any questions or comments relating to the present application, he or she is

respectfully invited to contact Applicants' attorney at the telephone number set forth below.

Respectfully submitted,

Betsy Kingsbury Dowd

Registration No.: 52,830 Attorney for Applicants

HOFFMANN & BARON, LLP 6900 Jericho Turnpike Syosset, New York 11791 (516) 822-3550

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (BY) 32) PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 1038-17 PCT/US			SERIAL NO. 10/573,056		
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	DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Fuchs, "Separating the Fluorescence and Reflectance Components of Coral Spectra," Applied Optics, Vol. 40, No. 21, pp. 3614-3621 (July 20, 2001)
-	Cunningham, et al., "Brewster-angle Measurements of Sea-surface Reflectance Using a High Resolution Spectroradiometer," J. Opt. A: Pure Appl. Opt. 4, S29-S33 (2002)
	S.P. Schilders, et al., "Effect of Scatterer Size on Microscopic Imaging Through Turbid Media Based on Differential Polarisation-Gating," Optics Communications 157, pp. 238-248 (1998)

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# DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

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# J.M. Schmitt, et al., "Use of Polarized Light to Discriminate Short-Path Photons in a Multiply Scattering Medium," Applied Optics, Vol. 31, No. 30, pp. 6535-6546 (October 20, 1992) S.G. Demos, et al., "Temporal Gating in Highly Scattering Media by the Degree of Optical Polarization," Optics Letters, Vol. 21, No. 2, pp. 161-163 (January 15, 1996) Stephen P. Morgan, et al., "Effects of Polarization State and Scatterer Concentration on Optical Imaging Through Scattering Media," Applied Optics, Vol. 36, No. 7, pp. 1560-1565 (March 1, 1997)

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